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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/767,728	01/30/2004	Michael Shenfield	T8467911US	6100
92030	7590	09/14/2011	EXAMINER	
Gowling Lafleur Henderson LLP Suite 1600 1 First Canadian Place 100 King Street West Toronto, ON M5X1G5 CANADA			HOANG, PHUONG N	
			ART UNIT	PAPER NUMBER
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No.	Applicant(s)
	10/767,728 Examiner PHUONG HOANG	SHENFIELD ET AL. Art Unit 2194

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 02 November 2010.
- 2a) This action is **FINAL**. 2b) This action is non-final.
- 3) An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.
- 4) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 5) Claim(s) 1, 3, 6 - 21, 23 and 26 - 43 is/are pending in the application.
 - 5a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 6) Claim(s) _____ is/are allowed.
- 7) Claim(s) 1, 3, 6 - 21, 23 and 26 - 43 is/are rejected.
- 8) Claim(s) _____ is/are objected to.
- 9) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 10) The specification is objected to by the Examiner.
- 11) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 12) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) <input type="checkbox"/> Notice of References Cited (PTO-892)	4) <input type="checkbox"/> Interview Summary (PTO-413)
2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date. _____ .
3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)	5) <input type="checkbox"/> Notice of Informal Patent Application
Paper No(s)/Mail Date. _____ .	6) <input type="checkbox"/> Other: _____ .

DETAILED ACTION

1. Claims 1, 3, 6 – 21, 23, 26 - 43 are pending for examination.

Continued Examination Under 37 CFR 1.114

2. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 11/02/2010 has been entered.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

4. **Claims 1, 3, 6 – 7, 12 – 16, 18 – 21, 23, 26 - 27, 32 – 36 and 38 - 43 are rejected under 35 U.S.C. 102(e) as being anticipated by Slaughter et al., (US PAT 7,458,082 hereinafter Slaughter).**

5. Slaughter reference was cited in previous office action.

6. **As to claim 1**, Slaughter teaches a method for providing dynamic interaction between a pair of application programs by an interface module of a terminal (“...message layer 104...”, col. 11 lines 5 – 40, col. 78 lines 57- 30, col. 83 lines 5 – 30, col. 14 lines 37 - 50), the pair of applications including a requestor application desiring access to a target application, the method comprising the steps of:

registering (service providers may register their services, col. 45 lines 35 – 45, col. 47 lines 40 - 50) access information of the target application, the access information including published access information (advertisement, col. 60 lines 20 - 30) made available in a data structure (a space available for retrieving data by message layer, col. 60 lines 20 - 30) for retrieval by the interface module;

receiving an access request by the interface module (“...message layer 104...”, col. 11 lines 5 – 40, col. 13 lines 42 – 65, col. 14 lines 10 – 20, col. 17 lines 15 – 25, col. 18 lines 60 - 65) from the requester application (client application search the space by providing keywords, col. 11 lines 10 – 40, col. 46 lines 45 – 55), the access request

including content corresponding to the published access information of the target application (service providers posting services, col. 11 lines 5 – 40);

obtaining an interface component (bridging mechanism and proxy services, title, abstract, col. 11 lines 5 – 40, col. 78 lines 47 - col. 80, col. 82 lines 10 – 30, col. 83 lines 27 – col. 84, figures 47 – 51 and associated text) by using the request content to search the data structure (proxy is instantiated when client searches using keywords/advertisement on the space, col. 7 lines 38 – 50, col. 8 lines 1 – 15, col. 43 lines 50 – 65, col. 44 lines 1 – 7, col. 46 lines 45 – 55, col. 81 lines 25 – 37, col. 82 lines 10 - 30), the interface component includes an application program interface (bridge wrapped with API, col. 11 lines 25 – 40, col. 79 lines 10 – 30) configured for enabling communication in a language incompatible with the interface module (platform independence, col. 13 lines 40 – 55, col. 14 lines 6 - 20);

identifying a plug-in access handler associated with the interface component, the plug-in access handler configured to be specific to the target application (“.... Every client connection may have a different proxy-instance...” and “.... create a proxy 550 to bridge the client 554 to the service 556...”, col. 81 lines 32 – 36 and col. 82 lines 20 – 30) and for translating the incompatible language between the API and the interface module (“.... proxies...translate messages...” and “... message layer having API that provides send message and receive message capabilities.... and “...A browser proxy (most commonly implemented as a servlet) may translate conventional web page requests into messages...”, and “.... A bridging mechanism may be provided for

"wrapping" one or more specific device discovery protocols, such as Bluetooth's, in a messaging API", col. 7 lines 50 – 60, col. 11 lines 5 – 40, col. 79 lines 10 – 20, col. 82 lines 5 – 30); and

employing (inherent) the interface component by the interface module to satisfy the access request of the requestor application for interaction with the target application.

7. **As to claim 3**, Slaughter teaches wherein the incompatible language is that used by a native runtime environment of the terminal (PDAs, mobile phones, col. 14 lines 36 - 45).

8. **As to claim 6**, Slaughter teaches registering the access handler with the interface module through an extension interface, the published access information of the access handler being added to the data structure (register, col. 41 lines 40 – 50, col. 42 lines 4 – 12, col. 48 lines 1 - 10).

9. **As to claim 7**, Slaughter teaches accessing the target application through the interface module using the access handler to call a corresponding application program interface (proxies, col. 7 lines 35 - 60).

10. **As to claim 12**, Slaughter teaches assembling the request content to include selected from the group consisting of: a local location and a remote location (local and remote, figure 38 and associated text, col. 12 lines 40 - 50).
11. **As to claims 13 - 14**, Slaughter teaches wherein the remote location is on other terminal coupled to said terminal through a network, the other terminal having one of the pair of applications for network interaction with the other of the pair of applications (network layer, col. 12 lines 15 - 50).
12. **As to claim 15**, Slaughter teaches wherein the data structure is selected from the group consisting of an application profile table (space, figures 6, 8, 13 and associated text) and an application API descriptor table.
13. **As to claim 16**, Slaughter teaches wherein the application profile table includes application profiles of a plurality of target applications (space contains all information of service providers, figures 6, 8, 13 and associated text).

14. **As to claim 18**, Slaughter teaches wherein the data structure includes the access information selected from the group consisting of: application URI, application version, application description, and a predefined set of matching API construct pairs (URL, col. 12 lines 60 - 67).

15. **As to claims 19 - 20**, Slaughter teaches providing an interface of the platform neutral interface selected from the group consisting of: an extension interface, a query and registration interface, and an execution interface (col. 12 lines 40 – 50, col. 14 lines 10 - 15).

16. **As to claim 21**, this is the system claim of claim 1. See rejection for claim 1 above.

17. **As to claim 23**, see rejection for claim 3 above.

18. **As to claims 26 – 27**, see rejection for claims 6 – 7 above.

19. **As to claims 32 – 34**, see rejection for claims 12 - 14 above.
20. **As to claims 35 – 36**, see rejection for claims 15 – 16 above.
21. **As to claims 38 - 40**, see rejection for claims 18 – 20 above.
22. **As to claim 41**, Slaughter teaches wherein the query and registration interface is configured for publishing the access information (publish messages, col. 19 lines 5 - 15).
23. **As to claim 42**, this is the memory claim of claim 1. See rejection for claim 1 above.
24. **As to claim 43**, this is the method claim of claim 1. See rejection for claim 1 above.

Claim Rejections - 35 USC § 103

25. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

26. **Claims 8 – 10, 17, 28 – 30 and 37 are rejected under 35 U.S.C. 103(a) as being unpatentable over Slaughter et al., (US PAT 7,458,082 hereinafter Slaughter) in view of Loo et al., (US PUB 2002/0143865 hereinafter Loo).**

27. Loo reference was cited in previous office action.

28. **As to claim 8**, Slaughter teaches search algorithm with the request content (directory service ...search facility for searching keyword, col. 13 lines 16 - 40).

Slaughter does not but Loo teaches matching ones of the access handlers (database proxy stores methods and input parameters for proxies, [0133, 0136]).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the teachings of Slaughter and Loo because database proxy would find and match methods and input parameters for all proxies when created to be used to access to the distributed computing system for each client.

29. **As to claims 9 - 10**, Slaughter teaches wherein the language used to express the interface module is selected from the group consisting of: a structured definition language based on xml and a script (xml, col. 12 lines 60 - 65).

30. **As to claim 17**, Slaughter does not but Loo teaches wherein the application API descriptor table includes descriptors selected from the group consisting of: API descriptors and extension element descriptors (database proxy stores methods and input parameters for proxies, [0133, 0136]). See motivation for claim 8 above.

31. **As to claims 28 - 30**, see rejection for claims 8 - 10 above.

32. **As to claim 37**, see rejection for claim 17 above.

33. **Claims 11 and 31 are rejected under 35 U.S.C. 103(a) as being unpatentable over Slaughter in view of Loo as applied to claims 9 and 29 above, and further in view of Bloch et al., (US PUB 2002/0129129 hereinafter Bloch).**

34. Bloch reference was cited in previous office action.

35. **As to claims 11 and 31**, Slaughter and Loo do not but Bloch teaches ECMA script (ECMA script, figures 4 and 8 and associated text, especially 0062, 0064, 0086).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the teachings of Slaughter, Loo, and Block's system because ECMA script would provide a free-form script text that must be parsed by a specific script engine compliant with ECMA format as designed for the system.

Response to Arguments

36. Applicant's arguments have been fully considered but they are not persuasive.

37. Applicant argued that Slaughter does not teach the amended limitation "identifying a plug-in access handler Interface module".

In response, examiner cited Slaughter for teaching the amended limitation. See rejection above.

Conclusion

36. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

37. Any inquiry concerning this communication or earlier communications from the examiner should be directed to PHUONG N. HOANG whose telephone number is (571)272-3763. The examiner can normally be reached on Monday - Friday 9:00 am to 5:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hyunh S. Sough can be reached on 571-272-6799. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/P. N. H./
Examiner, Art Unit 2194

/S. Sough/
SPE, Art Unit 2194